Journal of Tribology

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, BR indicates Book Review, and E indicates Errata

Ackroyd, B., Chandrasekar, S., and Compton, W. D. — A Model for the Contact Conditions at the Chip-Tool Interface in Machining. **125,** 649–660

Adams, George G., Müftü, Sinan, and Azhar, Nazif Mohd — A Scale-Dependent Model for Multi-Asperity Contact and Friction. **125,** 700–708

Airapetyan, Ruben G. — (see Kudish, Ilya I.) **125,** 513–522

Ajayi, Oyelayo O. — (see Aldajah, Saud) **125,** 643–648

Aldajah, Saud, Ajayi, Oyelayo O., Fenske, George R., and Kumar, Sudhir — Investigation of Top of Rail Lubrication and Laser Glazing for Improved Railroad Energy Efficiency. **125,** 643–648

Anand, Umang, and Katz, Joseph — Prevention of Nozzle Wear in Abrasive Water Suspension Jets (AWSJ) Using Porous Lubricated Nozzles. **125,** 168–180

Andrés, Luis San, and Diaz, Sergio E. — Flow Visualization and Forces From a Squeeze Film Damper Operating With Natural Air Entrainment. **125,** 325–333

Arghir, Mihai, Roucou, Nicolas, Helene, Mathieu, and Frene, Jean — Theoretical Analysis of the Incompressible Laminar Flow in a Macro-Roughness Cell. **125,** 309–318

_____ (see Helene, Mathieu) **125,** 283–290

_____ (see Helene, Mathieu) **125,** 301–308

Azhar, Nazif Mohd — (see Adams, George G.) **125,** 700–708

Bair, Scott, and Qureshi, Farrukh — The Generalized Newtonian Fluid Model and Elastohydrodynamic Film Thickness. **125,** 70–75

Bair, Scott S. — (see Kottke, Peter A.) **125,** 260–266

Bhushan, Bharat — (see Scott, William W.) **125,** 364–376

Blanchet, Thierry — (see Bryant, Michael D.) **125,** 217–222

Bogy, D. B. — (see Wu, Lin) **125,** 558–561

Bogy, David B. — (see Shen, Xinjiang) **125,** 358–363

Borodich, Feodor M., Keer, Leon M., and Harris, Stephen J. — Self-Similarity in Abrasiveness of Hard Carbon-Containing Coatings. **125,** 1–7

Bottenschein, M. — (see Ettles, C. M.) **125,** 824–832

Bouyer, J., and Fillon, M. — Improvement of the THD Performance of a Misaligned Plain Journal Bearing. **125,** 334–342

Brooks, Frank W., Jr. — (see Lee, Kwangjin) **125,** 44–51

Brunetière, Noël, Tournerie, Bernard, and Frêne, Jean — TEHD Lubrication of Mechanical Face Seals in Stable Tracking Mode: Part 1—Numerical Model and Experiments. **125,** 608–616

_____, **Tournerie, Bernard, and Frêne, Jean** — TEHD Lubrication of Mechanical Face Seals in Stable Tracking Mode: Part 2—Parametric Study. **125,** 617–627

Bryant, Michael D., Blanchet, Thierry, Wang, Q. Jane, Ovaert, Timothy C., Erdemir, Ali, Fenske, George R., Poeppel, Roger B., and Ebrahim, Tabrez — Research Workshop Tribology Issues in Biology and Medicine. **125,** 217–222

Cale, Timothy S. — (see Kim, Andrew T.) **125,** 448–451

Chandrasekar, S. — (see Ackroyd, B.) **125,** 649–660

Chandrasekar, Srinivasan — (see Hwang, Jihong) **125,** 377–383

Chang, L. — (see Zhang, H.) **125,** 8–15

Chen, Darong — (see Hong, Yiping) **125,** 206–210(RC)

_____ (see Zhang, Chenhui) **125,** 445–447

Childs, Dara W. — (see Weatherwax, Mark) **125,** 422–429

Chiñas-Castillo, F., and Spikes, H. A. — Mechanism of Action of Colloidal Solid Dispersions. **125,** 552–557

Choi, Dong-Hoon — (see Yoon, Sang-Joon) **125,** 145–151

Choi, Junho, Kawaguchi, Masahiro, and Kato, Takahisa — Possibility of Organic Monolayer Films as Lubricants for Disk Drives: Comparative Study of PFPE and Organosilane. **125,** 850–853

Choo, J. W. — (see Glovnea, R. P.) **125,** 275–282

Choo, Jian W., Glovnea, Romeo P., Olver, Andrew V., and Spikes, Hugh A. — The Effects of Three-Dimensional Model Surface Roughness Features on Lubricant Film Thickness in EHL Contacts. **125,** 533–542

Compton, W. D. — (see Ackroyd, B.) **125,** 649–660

Cretu, O. S., and Glovnea, R. P. — Traction Drive With Reduced Spin Losses. **125,** 507–512

Danyluk, Steven — (see Ng, Sum Huan) **125,** 582–586

Diaz, Kelvin I. — (see Sawyer, W. Gregory) **125,** 678–681(RC)

Diaz, Sergio E. — (see Andrés, Luis San) **125,** 325–333

Dickrell, D. J., III, Dooner, D. B., and Sawyer, W. G. — The Evolution of Geometry for a Wearing Circular Cam: Analytical and Computer Simulation With Comparison to Experiment. **125,** 187–192

Dooner, D. B. — (see Dickrell, D. J., III) **125,** 187–192

Ebrahim, Tabrez — (see Bryant, Michael D.) **125,** 217–222

Ehret, Pascal — (see Félix-Quiñonez, Armando) **125,** 252–259

Erdemir, Ali — (see Bryant, Michael D.) **125,** 217–222

Etsion, Izhak — (see Kogut, Lior) **125,** 499–506

Ettles, C. M., Knox, R. T., Ferguson, J. H., and Horner, D. — Test Results for PTFE-Faced Thrust Pads, With Direct Comparison Against Babbitt-Faced Pads and Correlation With Analysis. **125,** 814–823

_____, **Seyler, J., and Bottenschein, M.** — Some Effects of Start-Up and Shut-Down on Thrust Bearing Assemblies in Hydro-Generators. **125,** 824–832

Evans, H. P. — (see Tao, J.) **125,** 267–274

Farris, Thomas N. — (see Hwang, Jihong) **125,** 377–383

Félix-Quiñonez, Armando, Ehret, Pascal, and Summers, Jonathan L. — New Experimental Results of a Single Ridge Passing Through an EHL Conjunction. **125,** 252–259

Feng, Ming, Ono, Kyosuke, and Mimura, Kenji — Mixed EHL Analysis of the Variable Torque Slipping Clutch With Skewed Rollers. **125,** 756–769

Fenske, George R. — (see Aldajah, Saud) **125,** 643–648

_____ (see Bryant, Michael D.) **125,** 217–222

Ferguson, J. H. — (see Ettles, C. M.) **125,** 814–823

Fillon, M. — (see Bouyer, J.) **125,** 334–342

Journal of Tribology

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, BR indicates Book Review, and E indicates Errata

Ackroyd, B., Chandrasekar, S., and Compton, W. D. — A Model for the Contact Conditions at the Chip-Tool Interface in Machining. **125,** 649–660

Adams, George G., Müftü, Sinan, and Azhar, Nazif Mohd — A Scale-Dependent Model for Multi-Asperity Contact and Friction. **125,** 700–708

Airapetyan, Ruben G. — (see Kudish, Ilya I.) **125,** 513–522

Ajayi, Oyelayo O. — (see Aldajah, Saud) **125,** 643–648

Aldajah, Saud, Ajayi, Oyelayo O., Fenske, George R., and Kumar, Sudhir — Investigation of Top of Rail Lubrication and Laser Glazing for Improved Railroad Energy Efficiency. **125,** 643–648

Anand, Umang, and Katz, Joseph — Prevention of Nozzle Wear in Abrasive Water Suspension Jets (AWSJ) Using Porous Lubricated Nozzles. **125,** 168–180

Andrés, Luis San, and Diaz, Sergio E. — Flow Visualization and Forces From a Squeeze Film Damper Operating With Natural Air Entrainment. **125,** 325–333

Arghir, Mihai, Roucou, Nicolas, Helene, Mathieu, and Frene, Jean — Theoretical Analysis of the Incompressible Laminar Flow in a Macro-Roughness Cell. **125,** 309–318

_____ (see Helene, Mathieu) **125,** 283–290

_____ (see Helene, Mathieu) **125,** 301–308

Azhar, Nazif Mohd — (see Adams, George G.) **125,** 700–708

Bair, Scott, and Qureshi, Farrukh — The Generalized Newtonian Fluid Model and Elastohydrodynamic Film Thickness. **125,** 70–75

Bair, Scott S. — (see Kottke, Peter A.) **125,** 260–266

Bhushan, Bharat — (see Scott, William W.) **125,** 364–376

Blanchet, Thierry — (see Bryant, Michael D.) **125,** 217–222

Bogy, D. B. — (see Wu, Lin) **125,** 558–561

Bogy, David B. — (see Shen, Xinjiang) **125,** 358–363

Borodich, Feodor M., Keer, Leon M., and Harris, Stephen J. — Self-Similarity in Abrasiveness of Hard Carbon-Containing Coatings. **125,** 1–7

Bottenschein, M. — (see Ettles, C. M.) **125,** 824–832

Bouyer, J., and Fillon, M. — Improvement of the THD Performance of a Misaligned Plain Journal Bearing. **125,** 334–342

Brooks, Frank W., Jr. — (see Lee, Kwangjin) **125,** 44–51

Brunetière, Noël, Tournerie, Bernard, and Frêne, Jean — TEHD Lubrication of Mechanical Face Seals in Stable Tracking Mode: Part 1—Numerical Model and Experiments. **125,** 608–616

_____, **Tournerie, Bernard, and Frêne, Jean** — TEHD Lubrication of Mechanical Face Seals in Stable Tracking Mode: Part 2—Parametric Study. **125,** 617–627

Bryant, Michael D., Blanchet, Thierry, Wang, Q. Jane, Ovaert, Timothy C., Erdemir, Ali, Fenske, George R., Poeppel, Roger B., and Ebrahim, Tabrez — Research Workshop Tribology Issues in Biology and Medicine. **125,** 217–222

Cale, Timothy S. — (see Kim, Andrew T.) **125,** 448–451

Chandrasekar, S. — (see Ackroyd, B.) **125,** 649–660

Chandrasekar, Srinivasan — (see Hwang, Jihong) **125,** 377–383

Chang, L. — (see Zhang, H.) **125,** 8–15

Chen, Darong — (see Hong, Yiping) **125,** 206–210(RC)

_____ (see Zhang, Chenhui) **125,** 445–447

Childs, Dara W. — (see Weatherwax, Mark) **125,** 422–429

Chiñas-Castillo, F., and Spikes, H. A. — Mechanism of Action of Colloidal Solid Dispersions. **125,** 552–557

Choi, Dong-Hoon — (see Yoon, Sang-Joon) **125,** 145–151

Choi, Junho, Kawaguchi, Masahiro, and Kato, Takahisa — Possibility of Organic Monolayer Films as Lubricants for Disk Drives: Comparative Study of PFPE and Organosilane. **125,** 850–853

Choo, J. W. — (see Glovnea, R. P.) **125,** 275–282

Choo, Jian W., Glovnea, Romeo P., Olver, Andrew V., and Spikes, Hugh A. — The Effects of Three-Dimensional Model Surface Roughness Features on Lubricant Film Thickness in EHL Contacts. **125,** 533–542

Compton, W. D. — (see Ackroyd, B.) **125,** 649–660

Cretu, O. S., and Glovnea, R. P. — Traction Drive With Reduced Spin Losses. **125,** 507–512

Danyluk, Steven — (see Ng, Sum Huan) **125,** 582–586

Diaz, Kelvin I. — (see Sawyer, W. Gregory) **125,** 678–681(RC)

Diaz, Sergio E. — (see Andrés, Luis San) **125,** 325–333

Dickrell, D. J., III, Dooner, D. B., and Sawyer, W. G. — The Evolution of Geometry for a Wearing Circular Cam: Analytical and Computer Simulation With Comparison to Experiment. **125,** 187–192

Dooner, D. B. — (see Dickrell, D. J., III) **125,** 187–192

Ebrahim, Tabrez — (see Bryant, Michael D.) **125,** 217–222

Ehret, Pascal — (see Félix-Quiñonez, Armando) **125,** 252–259

Erdemir, Ali — (see Bryant, Michael D.) **125,** 217–222

Etsion, Izhak — (see Kogut, Lior) **125,** 499–506

Ettles, C. M., Knox, R. T., Ferguson, J. H., and Horner, D. — Test Results for PTFE-Faced Thrust Pads, With Direct Comparison Against Babbitt-Faced Pads and Correlation With Analysis. **125,** 814–823

_____, **Seyler, J., and Bottenschein, M.** — Some Effects of Start-Up and Shut-Down on Thrust Bearing Assemblies in Hydro-Generators. **125,** 824–832

Evans, H. P. — (see Tao, J.) **125,** 267–274

Farris, Thomas N. — (see Hwang, Jihong) **125,** 377–383

Félix-Quiñonez, Armando, Ehret, Pascal, and Summers, Jonathan L. — New Experimental Results of a Single Ridge Passing Through an EHL Conjunction. **125,** 252–259

Feng, Ming, Ono, Kyosuke, and Mimura, Kenji — Mixed EHL Analysis of the Variable Torque Slipping Clutch With Skewed Rollers. **125,** 756–769

Fenske, George R. — (see Aldajah, Saud) **125,** 643–648

_____ (see Bryant, Michael D.) **125,** 217–222

Ferguson, J. H. — (see Ettles, C. M.) **125,** 814–823

Fillon, M. — (see Bouyer, J.) **125,** 334–342

Frene, Jean — (see Arghir, Mihai) **125,** 309–318
_____ (see Helene, Mathieu) **125,** 283–290
_____ (see Helene, Mathieu) **125,** 301–308
Frêne, Jean — (see Brunetière, Noël) **125,** 608–616
_____ (see Brunetière, Noël) **125,** 617–627

Glavatskih, Sergei B. — Evaluating Thermal Performance of a PTFE-Faced Tilting Pad Thrust Bearing. **125,** 319–324
Glovnea, R. P., Choo, J. W., Olver, A. V., and Spikes, H. A. — Compression of a Single Transverse Ridge in a Circular Elastohydrodynamic Contact. **125,** 275–282
_____ (see Cretu, O. S.) **125,** 507–512
Glovnea, Romeo P. — (see Choo, Jian W.) **125,** 533–542
Gong, Z.-Q., and Komvopoulos, K. — Effect of Surface Patterning on Contact Deformation of Elastic-Plastic Layered Media. **125,** 16–24
Green, Itzhak — (see Miller, Brad A.) **125,** 403–413

Hamilton, Matthew A. — (see Sawyer, W. Gregory) **125,** 678–681(RC)
Harris, Stephen J. — (see Borodich, Feodor M.) **125,** 1–7
_____ (see Liu, Shuangbiao) **125,** 862–868(TB)
Helene, Mathieu, Arghir, Mihai, and Frene, Jean — Numerical Study of the Pressure Pattern in a Two-Dimensional Hybrid Journal Bearing Recess, Laminar, and Turbulent Flow Results. **125,** 283–290
_____, **Arghir, Mihai, and Frene, Jean** — Numerical Three-Dimensional Pressure Patterns in a Recess of a Turbulent and Compressible Hybrid Journal Bearing. **125,** 301–308
_____ (see Arghir, Mihai) **125,** 309–318
Heshmat, Hooshang — (see Salehi, Mohsen) **125,** 804–813
Hight, Robert — (see Ng, Sum Huan) **125,** 582–586
Hong, Yiping, Chen, Darong, Wang, Jiadao, and Li, Xiaodi — Numerical Modeling of a Newtonian and a Bingham Fluid in a Rayleigh Step Bearing. **125,** 206–210(RC)
Hopkinson, N. A. — (see Tao, J.) **125,** 267–274
Horner, D. — (see Ettles, C. M.) **125,** 814–823
Hughes, T. G. — (see Tao, J.) **125,** 267–274
Hwang, Jihong, Kompella, Sridhar, Chandrasekar, Srinivasan, and Farris, Thomas N. — Measurement of Temperature Field in Surface Grinding Using Infra-Red (IR) Imaging System. **125,** 377–383

Iida, Kohei, and Ono, Kyosuke — Design Consideration of Contact/Near-Contact Sliders Based on a Rough Surface Contact Model. **125,** 562–570
_____ (see Yamane, Masami) **125,** 152–161
Ikeda, Takashi — (see Kaneko, Satoru) **125,** 592–599
Ioannides, E. — (see Kadiric, A.) **125,** 720–730
Ito, Shin — (see Kaneko, Satoru) **125,** 592–599
Iwai, Tomoaki — (see Kurokawa, Masaya) **125,** 661–669

Jackson, A. — (see Zhang, H.) **125,** 8–15
Jacobson, Bo O. — (see Ståhl, Jonas) **125,** 523–532
Jacod, B., Venner, C. H., and Lugt, P. M. — Extension of the Friction Mastercurve to Limiting Shear Stress Models. **125,** 739–746
Jang, G. H., and Jeong, S. W. — Stability Analysis of a Rotating System Due to the Effect of Ball Bearing Waviness. **125,** 91–101
_____, **and Jeong, S. W.** — Analysis of a Ball Bearing With Waviness Considering the Centrifugal Force and Gyroscopic Moment of the Ball. **125,** 487–498
_____, **and Yoon, J. W.** — Stability Analysis of a Hydrodynamic Journal Bearing With Rotating Herringbone Grooves. **125,** 291–300
Jayson, Eric M., Murphy, J., Smith, P. W., and Talke, Frank E. — Effects of Air Bearing Stiffness on a Hard Disk Drive Subject to Shock and Vibration. **125,** 343–349
Jeng, Yeau-Ren, and Lin, Jeng-Nan — Study of Interfacial Phenomena Affecting Thermosonic Wire Bonding in Microelectronics. **125,** 576–581
_____, **and Wang, Pei-Ying** — An Elliptical Microcontact Model Considering Elastic, Elastoplastic, and Plastic Deformation. **125,** 232–240
Jeong, S. W. — (see Jang, G. H.) **125,** 91–101
_____ (see Jang, G. H.) **125,** 487–498

Kadiric, A., Sayles, R. S., Zhou, Xiao Bo, and Ioannides, E. — A Numerical Study of the Contact Mechanics and Sub-Surface Stress Effects Experienced Over a Range of Machined Surface Coatings in Rough Surface Contacts. **125,** 720–730
Kaneko, Satoru, Ikeda, Takashi, Saito, Takuro, and Ito, Shin — Experimental Study on Static and Dynamic Characteristics of Liquid Annular Convergent-Tapered Damper Seals With Honeycomb Roughness Pattern. **125,** 592–599
Kaneta, M., and Yang, P. — Formation Mechanism of Steady Multi-Dimples in Thermal EHL Point Contacts. **125,** 241–251
_____, **and Yang, P.** — Effects of Thermal Conductivity of Contacting Surfaces on Point EHL Contacts. **125,** 731–738
_____ (see Yang, P.) **125,** 210–214(RC)
Kaneta, Motohiro — (see Wang, Jing) **125,** 102–109
Kato, Koji — (see Wang, Dong F.) **125,** 430–436
_____ (see Wang, Dong F.) **125,** 437–444
Kato, Takahisa — (see Choi, Junho) **125,** 850–853
_____ (see Tanaka, Kentaro) **125,** 587–591
Katz, Joseph — (see Anand, Umang) **125,** 168–180
Kawaguchi, Masahiro — (see Choi, Junho) **125,** 850–853
Keer, Leon M. — (see Borodich, Feodor M.) **125,** 1–7
Khonsari, M. M. — (see Krithivasan, Rajesh) **125,** 833–841
_____ (see Pappur, Manjunath) **125,** 135–144
Kim, Andrew T., Seok, Jongwon, Tichy, John A., and Cale, Timothy S. — Soft Elastohydrodynamic Lubrication With Roughness. **125,** 448–451
Knox, R. T. — (see Ettles, C. M.) **125,** 814–823
Kogut, Lior, and Etsion, Izhak — A Semi-Analytical Solution for the Sliding Inception of a Spherical Contact. **125,** 499–506
Kompella, Sridhar — (see Hwang, Jihong) **125,** 377–383
Komvopoulos, K. — (see Gong, Z.-Q.) **125,** 16–24
_____ (see Ye, N.) **125,** 52–59
_____ (see Ye, N.) **125,** 685–691
_____ (see Ye, N.) **125,** 692–699
Kottke, Peter A., Bair, Scott S., and Winer, Ward O. — The Measurement of Viscosity of Liquids Under Tension. **125,** 260–266
Krithivasan, Rajesh, and Khonsari, M. M. — Thermally Induced Seizure in Journal Bearings During Startup and Transient Flow Disturbance. **125,** 833–841
Kudish, Ilya I., and Airapetyan, Ruben G. — Modeling of Line Contacts With Degrading Lubricant. **125,** 513–522
Kumar, Sudhir — (see Aldajah, Saud) **125,** 643–648
Kundera, Czeslaw — Determination and Analysis of Cross-Couplings of Axial and Angular Vibrations of a Flexibly Mounted Ring in a Non-Contacting Face Seal. **125,** 797–803
Kurokawa, Masaya, Uchiyama, Yoshitaka, Iwai, Tomoaki, and Nagai, Susumu — Tribological Properties of Polyoxymethylene Composites Against Aluminum. **125,** 661–669

Laraqi, Najib — An Exact Explicit Analytical Solution of the Steady-State Temperature in a Half Space Subjected to a Moving Circular Heat Source. **125,** 859–862(TB)
Larsson, Björn — Heat Separation in Frictional Rotor-Seal Contact. **125,** 600–607

Le, H. R., and Sutcliffe, M. P. F. — Evolution of Surface Pits on Stainless Steel Strip in Cold Rolling and Strip Drawing. **125,** 384–390
_____, **and Sutcliffe, M. P. F.** — A Friction Model for Cold Strip Rolling With Two-Wavelength Surface Roughness in the "Mixed" Lubrication Regime. **125,** 670–677
Lee, Kwangjin, and Brooks, Frank W., Jr. — Hot Spotting and Judder Phenomena in Aluminum Drum Brakes. **125,** 44–51
Li, Qiang, and Lovell, Michael R. — Predicting Critical Friction in a Two-Roll Cross Wedge Rolling Process. **125,** 200–203(RC)
Li, Wenzhi — (see Zhang, Chenhui) **125,** 445–447
Li, Xiaodi — (see Hong, Yiping) **125,** 206–210(RC)
Lin, Chih — (see Wang, Yansong) **125,** 747–755
Lin, Jeng-Nan — (see Jeng, Yeau-Ren) **125,** 576–581
Lin, Yuan, and Ovaert, Timothy C. — The Stress and Displacement Fields Produced in a Semi-Infinite Solid by a Uniform Heat Source Over a Rectangular Area on the Surface. **125,** 709–712
_____ (see Shi, Dongai) **125,** 223–231
Liu, Shuangbiao, and Wang, Qian — Transient Thermoelastic Stress Fields in a Half-Space. **125,** 33–43
_____, **Wang, Qian, and Harris, Stephen J.** — Surface Normal Thermoelastic Displacement in Moving Rough Contacts. **125,** 862–868(TB)
Lo, Sy-Wei, and Yang, Tung-Sheng — A New Mechanism of Asperity Flattening in Sliding Contact—The Role of Tool Elastic Microwedge. **125,** 713–719
Lovell, Michael R. — (see Li, Qiang) **125,** 200–203(RC)
_____ (see Ning, Xinguo) **125,** 457–461
Lugt, P. M. — (see Jacod, B.) **125,** 739–746
Luo, Jianbin — (see Zhang, Chenhui) **125,** 445–447

Masuda, S. — (see Yang, P.) **125,** 210–214(RC)
Matsumoto, Yoichiro — (see Tanaka, Kentaro) **125,** 587–591
Mayuram, M. M. — (see Ramprasad, M.) **125,** 181–186
Meyer, Donna — Reynolds Equation for Spherical Bearings. **125,** 203–206(RC)
Micklos, Brian — (see Sawyer, W. Gregory) **125,** 678–681(RC)
Miller, Brad A., and Green, Itzhak — Semi-Analytical Dynamic Analysis of Spiral-Grooved Mechanical Gas Face Seals. **125,** 403–413
Mimura, Kenji — (see Feng, Ming) **125,** 756–769
Mitsuya, Yasunaga, and Ohshima, Yasuji — Measurement of Velocity-Dependent Adhesive Force Exerted on Magnetic Disk Using Micro-Probe of SPM. **125,** 842–849
_____ (see Zhang, Hedong) **125,** 350–357
Mohan, Sankar K., and Ramarao, Bandaru V. — A Comprehensive Study of Self-Induced Torque Amplification in Rotary Viscous Couplings. **125,** 110–120
Mufti, Riaz A., and Priest, Martin — Experimental and Theoretical Study of Instantaneous Engine Valve Train Friction. **125,** 628–637
Müftü, Sinan — (see Adams, George G.) **125,** 700–708
Murphy, J. — (see Jayson, Eric M.) **125,** 343–349

Nagai, Susumu — (see Kurokawa, Masaya) **125,** 661–669
Nakagawa, Takumi — (see Ohta, Hiroyuki) **125,** 480–486
Nakayama, Keiji, and Nevshupa, Roman A. — Characteristics and Pattern of Plasma Generated at Sliding Contact. **125,** 780–787
Nevshupa, Roman A. — (see Nakayama, Keiji) **125,** 780–787
Ng, Sum Huan, Hight, Robert, Zhou, Chunhong, Yoon, Inho, and Danyluk, Steven — Pad Soaking Effect on Interfacial Fluid Pressure Measurements During CMP. **125,** 582–586
Nikas, George K. — Elastohydrodynamics and Mechanics of Rectangular Elastomeric Seals for Reciprocating Piston Rods. **125,** 60–69
Ning, Xinguo, Lovell, Michael R., and Slaughter, William S. — Two-Dimensional Anisotropic Contact Behavior of Unidirectional Continuous FRP Composites. **125,** 457–461
Nishikawa, Hiroshi — (see Wang, Jing) **125,** 102–109

Ohshima, Yasuji — (see Mitsuya, Yasunaga) **125,** 842–849
Ohta, Hiroyuki, and Nakagawa, Takumi — Using Ceramic Balls to Reduce Noise in a Linear Guideway Type Recirculating Linear Ball Bearing. **125,** 480–486
Olver, A. V. — Discussion: "A New Calculation Method of Hertz Elliptical Contact Pressure" (Tanaka, N., 2001, ASME J. Tribology, **123**(4), pp. 887–889). **125,** 462(RC)
_____ (see Glovnea, R. P.) **125,** 275–282
Olver, Andrew V. — (see Choo, Jian W.) **125,** 533–542
Ono, Kyosuke — (see Feng, Ming) **125,** 756–769
_____ (see Iida, Kohei) **125,** 562–570
_____ (see Yamane, Masami) **125,** 152–161
Ovaert, Timothy C. — (see Bryant, Michael D.) **125,** 217–222
_____ (see Lin, Yuan) **125,** 709–712
_____ (see Shi, Dongai) **125,** 223–231

Pappur, Manjunath, and Khonsari, M. M. — Flow Characterization and Performance of a Powder Lubricated Slider Bearing. **125,** 135–144
Poeppel, Roger B. — (see Bryant, Michael D.) **125,** 217–222
Polycarpou, Andreas A. — (see Shi, Xi) **125,** 788–796
_____ (see Suh, Allison Y.) **125,** 193–199
Priest, Martin — (see Mufti, Riaz A.) **125,** 628–637

Qureshi, Farrukh — (see Bair, Scott) **125,** 70–75

Ramarao, Bandaru V. — (see Mohan, Sankar K.) **125,** 110–120
Ramprasad, M., and Mayuram, M. M. — Some Studies on Scuffing Performance of Surface Treated AISI 4340 Steels. **125,** 181–186
Roucou, Nicolas — (see Arghir, Mihai) **125,** 309–318
Rumbarger, John H. — Simplification of Dynamic Capacity and Fatigue Life Estimations for Oscillating Rolling Bearings. **125,** 868–870(TB)

Sadeghi, Farshid — (see Zhao, Jiaxin) **125,** 76–90
Saikko, Vesa — Effect of Lubricant Protein Concentration on the Wear of Ultra-High Molecular Weight Polyethylene Sliding Against a CoCr Counterface. **125,** 638–642
Saito, Takuro — (see Kaneko, Satoru) **125,** 592–599
Salant, Richard F. — (see Xiong, Shunhe) **125,** 391–402
_____ (see Xiong, Shunhe) **125,** 469–479
Salehi, Mohsen, Heshmat, Hooshang, and Walton, James F. — On the Frictional Damping Characterization of Compliant Bump Foils. **125,** 804–813
San Andrés, Luis — (see Soulas, Thomas) **125,** 451–456
Sawyer, W. G. — (see Dickrell, D. J., III) **125,** 187–192
Sawyer, W. Gregory, Diaz, Kelvin I., Hamilton, Matthew A., and Micklos, Brian — Evaluation of a Model for the Evolution of Wear in a Scotch-Yoke Mechanism. **125,** 678–681(RC)
Sayles, R. S. — (see Kadiric, A.) **125,** 720–730
Scott, William W., and Bhushan, Bharat — Measurement and Prediction of Tape Cupping Under Mechanical and Hygrothermal Loads and Its Influence on Debris Generation in Linear Tape Drives. **125,** 364–376
Seok, Jongwon — (see Kim, Andrew T.) **125,** 448–451
Seyler, J. — (see Ettles, C. M.) **125,** 824–832

Shen, Xinjiang, and Bogy, David B. — Particle Flow and Contamination in Slider Air Bearings for Hard Disk Drives. **125,** 358–363
Shi, Dongai, Lin, Yuan, and Ovaert, Timothy C. — Indentation of an Orthotropic Half-Space by a Rigid Ellipsoidal Indenter. **125,** 223–231
Shi, Xi, and Polycarpou, Andreas A. — A Dynamic Friction Model for Unlubricated Rough Planar Surfaces. **125,** 788–796
Shia, C. Y. — (see Stango, R. J.) **125,** 414–421
Slaughter, William S. — (see Ning, Xinguo) **125,** 457–461
Smith, P. W. — (see Jayson, Eric M.) **125,** 343–349
Snidle, R. W. — (see Tao, J.) **125,** 267–274
Soulas, Thomas, and San Andrés, Luis — Performance of Damaged Hydrostatic Bearings: Predictions Versus Experiments. **125,** 451–456
Spikes, H. A. — (see Chiñas-Castillo, F.) **125,** 552–557
_____ (see Glovnea, R. P.) **125,** 275–282
Spikes, Hugh A. — (see Choo, Jian W.) **125,** 533–542
Ståhl, Jonas, and Jacobson, Bo O. — A Lubricant Model Considering Wall-Slip in EHL Line Contacts. 125, 523–532
Stango, R. J., Zhao, H., and Shia, C. Y. — Analysis of Contact Mechanics for Rotor-Bristle Interference of Brush Seal. **125,** 414–421
Starbuck, J. M. — (see Tao, J.) **125,** 267–274
Streator, Jeffrey L. — Dynamic Contact of a Rigid Sphere With an Elastic Half-Space: A Numerical Simulation. **125,** 25–32
Suh, Allison Y., and Polycarpou, Andreas A. — Adhesion and Pull-Off Forces for Polysilicon MEMS Surfaces Using the Sub-Boundary Lubrication Model. **125,** 193–199
Summers, Jonathan L. — (see Félix-Quiñonez, Armando) **125,** 252–259
Sun, Qiao — (see Tang, Ying) **125,** 871–873(TB)
Sutcliffe, M. P. F. — (see Le, H. R.) **125,** 384–390
_____ (see Le, H. R.) **125,** 670–677

Talke, Frank E. — (see Jayson, Eric M.) **125,** 343–349
_____ (see Weissner, Stefan) **125,** 162–167
_____ (see Yonemura, Shinji) **125,** 571–575
Talks, M. — (see Tao, J.) **125,** 267–274
Tanaka, Kentaro, Kato, Takahisa, and Matsumoto, Yoichiro — Molecular Dynamics Simulation of Vibrational Friction Force Due to Molecular Deformation in Confined Lubricant Film. **125,** 587–591
Tang, Ying, and Sun, Qiao — Application of the Continuous Wavelet Transform to Bearing Defect Diagnosis. **125,** 871–873(TB)
Tao, J., Hughes, T. G., Evans, H. P., Snidle, R. W., Hopkinson, N. A., Talks, M., and Starbuck, J. M. — Elastohydrodynamic Lubrication Analysis of Gear Tooth Surfaces From Micropitting Tests. **125,** 267–274
Tichy, John A. — (see Kim, Andrew T.) **125,** 448–451
Tournerie, Bernard — (see Brunetière, Noël) **125,** 608–616
_____ (see Brunetière, Noël) **125,** 617–627

Uchiyama, Yoshitaka — (see Kurokawa, Masaya) **125,** 661–669

van Odyck, D. E. A., and Venner, C. H. — Stokes Flow in Thin Films. **125,** 121–134
_____, **and Venner, C. H.** — Compressible Stokes Flow in Thin Films. **125,** 543–551
Venner, C. H. — (see Jacod, B.) **125,** 739–746
_____ (see van Odyck, D. E. A.) **125,** 121–134
_____ (see van Odyck, D. E. A.) **125,** 543–551

Walton, James F. — (see Salehi, Mohsen) **125,** 804–813
Wang, Dong F., and Kato, Koji — Nano-Scale Fatigue Wear of Carbon Nitride Coatings: Part I—Wear Properties. **125,** 430–436
_____, **and Kato, Koji** — Nano-Scale Fatigue Wear of Carbon Nitride Coatings: Part II—Wear Mechanisms. **125,** 437–444
Wang, J., and Yang, P. — A Numerical Analysis for TEHL of Eccentric-Tappet Pair Subjected to Transient Load. **125,** 770–779
Wang, Jiadao — (see Hong, Yiping) **125,** 206–210(RC)
Wang, Jing, Yang, Peiran, Kaneta, Motohiro, and Nishikawa, Hiroshi — On the Surface Dimple Phenomena in Elliptical TEHL Contacts With Arbitrary Entrainment. **125,** 102–109
Wang, Pei-Ying — (see Jeng, Yeau-Ren) **125,** 232–240
Wang, Q. Jane — (see Bryant, Michael D.) **125,** 217–222
_____ (see Wang, Yansong) **125,** 747–755
Wang, Qian — (see Liu, Shuangbiao) **125,** 33–43
_____ (see Liu, Shuangbiao) **125,** 862–868(TB)
Wang, Yansong, Wang, Q. Jane, and Lin, Chih — Mixed Lubrication of Coupled Journal-Thrust-Bearing Systems Including Mass Conserving Cavitation. **125,** 747–755
Weatherwax, Mark, and Childs, Dara W. — Theory Versus Experiment for the Rotordynamic Characteristics of a High Pressure Honeycomb Annular Gas Seal at Eccentric Positions. **125,** 422–429
Webster, M. N. — (see Zhang, H.) **125,** 8–15
Weissner, Stefan, Zander, Uwe, and Talke, Frank E. — A New Finite-Element Based Suspension Model Including Displacement Limiters for Load/Unload Simulations. **125,** 162–167
Winer, Ward O. — (see Kottke, Peter A.) **125,** 260–266
Wu, Lin, and Bogy, D. B. — New First and Second Order Slip Models for the Compressible Reynolds Equation. **125,** 558–561

Xiong, Shunhe, and Salant, Richard F. — A Dynamic Model of a Contacting Mechanical Seal for Down-Hole Tools. **125,** 391–402
_____, **and Salant, Richard F.** — A Dynamic Model of a Contacting Mechanical Seal for Down-Hole Tools. **125,** 469–479

Yamada, Maiko — (see Zhang, Hedong) **125,** 350–357
Yamane, Masami, Ono, Kyosuke, and Iida, Kohei — Analysis of Tracking Characteristics and Optimum Design of Tri-Pad Slider to Micro-Waviness. **125,** 152–161
Yang, P., Kaneta, M., and Masuda, S. — Quantitative Comparisons Between Measured and Solved EHL Dimples in Point Contacts. **125,** 210–214(RC)
_____ (see Kaneta, M.) **125,** 241–251
_____ (see Kaneta, M.) **125,** 731–738
_____ (see Wang, J.) **125,** 770–779
Yang, Peiran — (see Wang, Jing) **125,** 102–109
Yang, Tung-Sheng — (see Lo, Sy-Wei) **125,** 713–719
Ye, N., and Komvopoulos, K. — Three-Dimensional Finite Element Analysis of Elastic-Plastic Layered Media Under Thermomechanical Surface Loading. **125,** 52–59
_____, **and Komvopoulos, K.** — Indentation Analysis of Elastic-Plastic Homogeneous and Layered Media: Criteria for Determining the Real Material Hardness. **125,** 685–691
_____, **and Komvopoulos, K.** — Effect of Residual Stress in Surface Layer on Contact Deformation of Elastic-Plastic Layered Media. **125,** 692–699
Yonemura, Shinji, Zhou, Lin, and Talke, Frank E. — An Investigation of Slider Vibrations in Near Contact Recording Using a Digital Laser Doppler Vibrometer. **125,** 571–575
Yoon, Inho — (see Ng, Sum Huan) **125,** 582–586
Yoon, J. W. — (see Jang, G. H.) **125,** 291–300
Yoon, Sang-Joon, and Choi, Dong-Hoon — Adjoint Design Sensitivity Analysis of Molecular Gas Film Lubrication Sliders. **125,** 145–151

Zander, Uwe — (see Weissner, Stefan) **125,** 162–167
Zhang, Chenhui, Luo, Jianbin, Li, Wenzhi, and Chen, Darong — Mechanical Properties of Nanocomposite TiN/Si_3N_4 Films Synthesized by Ion Beam Assisted Deposition (IBAD). **125,** 445–447
Zhang, H., Chang, L., Webster, M. N., and Jackson, A. — A Micro-Contact Model for Boundary Lubrication With Lubricant/Surface Physiochemistry. **125,** 8–15
Zhang, Hedong, Mitsuya, Yasunaga, and Yamada, Maiko — Spreading Characteristics of Molecularly Thin Lubricant on Surfaces With Groove-Shaped Textures: Effects of Molecular Weight and End-Group Functionality. **125,** 350–357
Zhang, W. J. — (see Zhu, Q.) **125,** 854–858
Zhao, H. — (see Stango, R. J.) **125,** 414–421
Zhao, Jiaxin, and Sadeghi, Farshid — Analysis of EHL Circular Contact Shut Down. **125,** 76–90
Zhou, Chunhong — (see Ng, Sum Huan) **125,** 582–586
Zhou, Lin — (see Yonemura, Shinji) **125,** 571–575
Zhou, Xiao Bo — (see Kadiric, A.) **125,** 720–730
Zhu, Q., and Zhang, W. J. — A Preliminary Nonlinear Analysis of the Axial Transient Response of the Sector-Shaped Hydrodynamic Thrust Bearing-Rotor System. **125,** 854–858